



ADOT I-19 FRONTAGE ROADS STUDY

Technical Advisory Committee Meeting No. 3
May 14, 2008

 Kimley-Horn
and Associates, Inc.





Agenda

- Introductions
- Review Progress and Schedule
- Discussion of Draft Program of Projects
- Public Involvement
- TAC Comments
- Adjournment



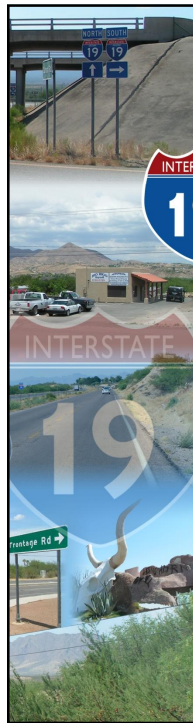
Study Purpose

- Document status of long-range frontage road recommendations
- Identify 10-year traffic and safety deficiencies on frontage roads
- Document jurisdictional perspectives on frontage roads
- Recommend a 10-year program of multi-modal improvements



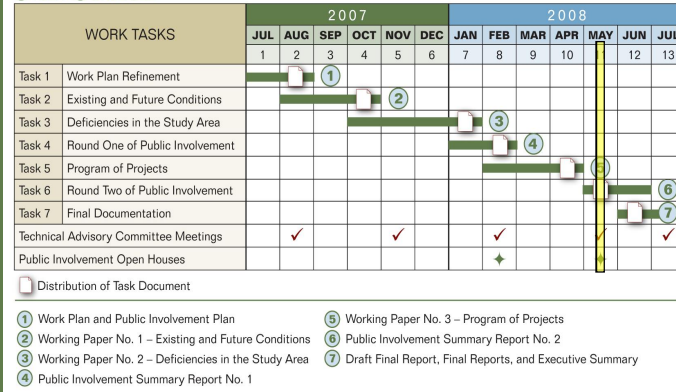
Progress to Date

- Completed:
 - Draft and Final WP 1 – Existing and Future Conditions
 - Draft and Final WP 2 – Needs and Deficiencies
 - Draft WP 3 – Program of Projects
 - TAC Comments on WP 3 due by May 16, 2008
- Open Houses scheduled:
 - May 27, 2008 (Tubac)
 - May 28, 2008 (Green Valley)
 - May 29, 2008 (Nogales)



Project Schedule

STUDY SCHEDULE



Working Papers Review

Working Paper 1

- Review of existing plans and studies
- Existing transportation conditions
- Future transportation conditions (2017 traffic volumes)

Working Paper 2

- Documentation of stakeholder interviews (11 interviews)
- Summary of needs and deficiencies
- Draft guidance for ADOT on I-19 frontage roads





Working Paper No. 3

- Review of guidance statement for improvements to I-19 frontage roads
- Review of needs and deficiencies
- Review of currently programmed projects
- Initial identification of potential projects
- Proposed program of projects
 - 0 to 5 year horizon
 - 5 to 10 year horizon



Draft Guidance Statement

General

- Frontage roads not recommended north of Continental Rd (I-19 Corridor Study)
- Provide continuity between Continental Rd and Country Club Rd in association with development in partnership with county and local jurisdictions



Draft Guidance Statement

- **Frontage Road Operation**
 - Continue two-way operation near term
 - Conversion to one-way operation, long term
 - Proposed Border Patrol station
- **Access Management**
 - Use ADOT red letter process for new development
 - Design and construct in accordance with ADOT/FHWA requirements (design and access)
 - TIAs identify access improvements for new development



Draft Guidance Statement

Maintenance

- Establish maintenance agreements between ADOT, Sahuarita, Santa Cruz County, Pima County for sweeping, trimming and pavement repair

Alternate Modes

- Provide paved shoulders with construction /reconstruction
- Prohibit golf carts (per A.R.S. 28-966)



Draft Guidance Statement

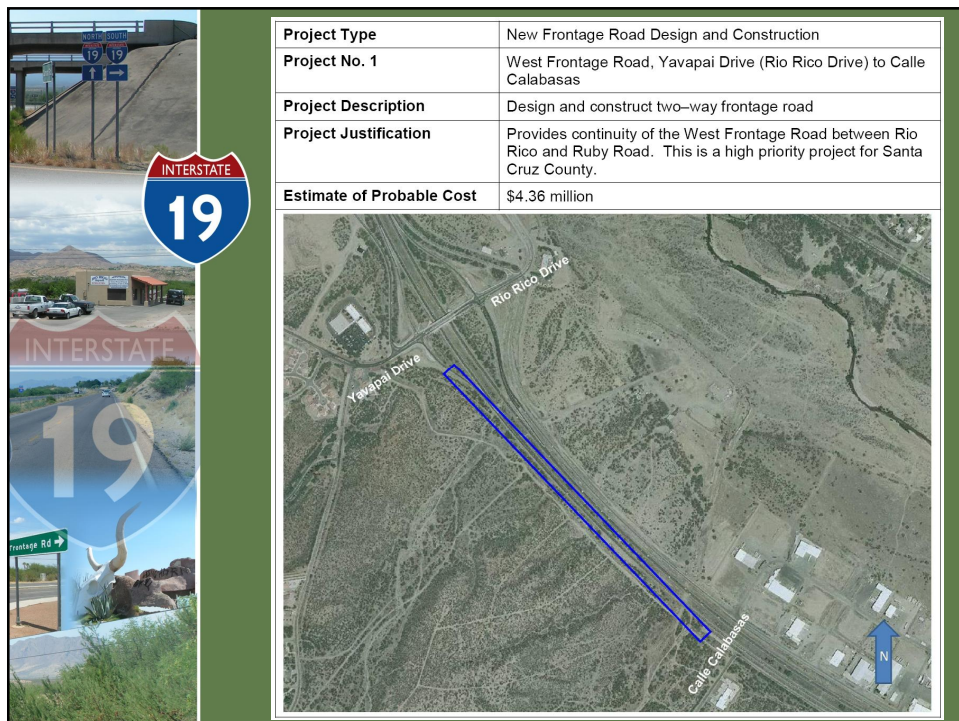
Jurisdictional Responsibility

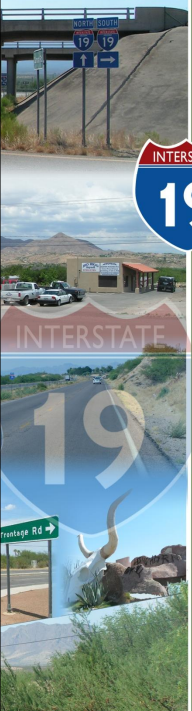
- ADOT will maintain and have jurisdiction over the frontage roads




Program of Projects

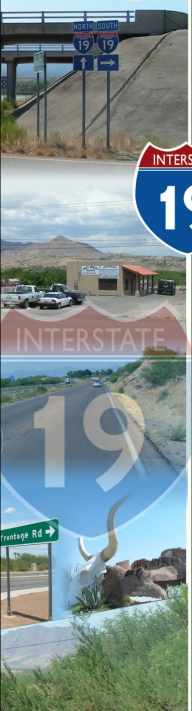
- Project Development Process
 - 34 projects initially identified
 - Needs and deficiency analysis
 - Stakeholder interviews
 - Public involvement activities
 - Refined to 15 projects:
 - New frontage road design and construction
 - Maintenance and rehabilitation
 - Shoulder widening
 - Intersection improvements
 - Studies: new frontage road segments from Country Club to Mariposa



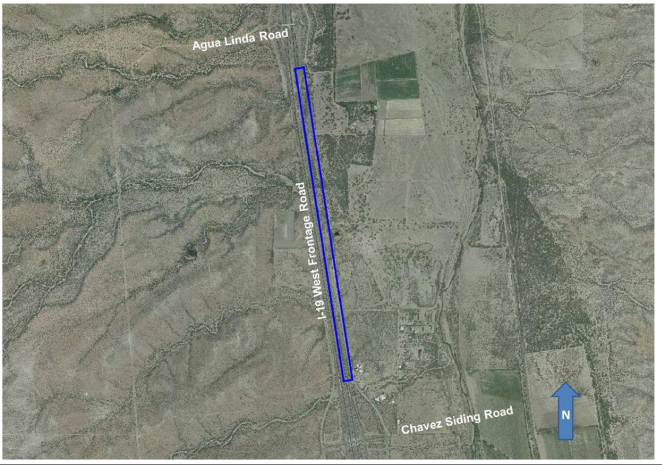


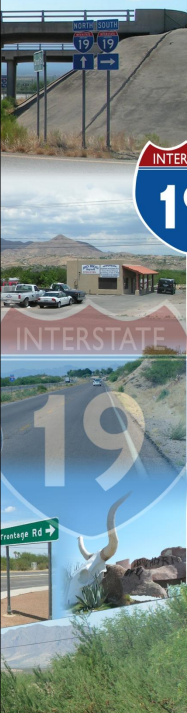
Project Type	New Frontage Road Design and Construction
Project No. 2	West Frontage Road, Chavez Siding to Agua Linda Rd
Project Description	Design and construct one-way frontage road
Project Justification	Completion of this frontage road segment provides continuity of the frontage road system between Continental Road and Tubac Road traffic interchanges.
Estimate of Probable Cost	\$3.13 million



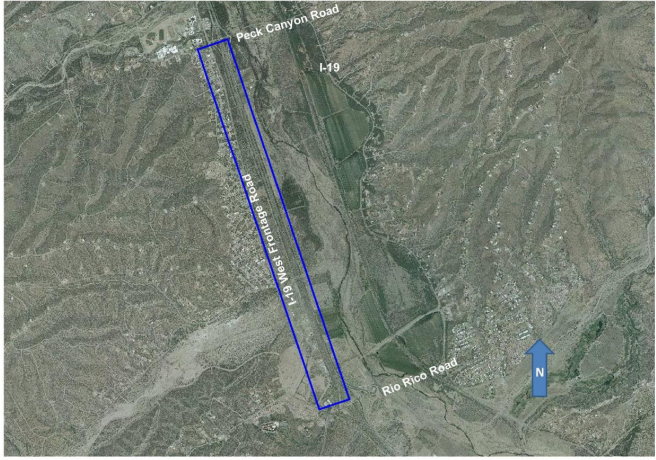



Project Type	New Frontage Road Design and Construction
Project No. 3	East Frontage Road, Chavez Siding to Agua Linda Road
Project Description	Design and construct one-way frontage road
Project Justification	Completion of this frontage road segment provides continuity of the frontage road system between Continental Road and Tubac Road traffic interchanges.
Estimate of Probable Cost	\$3.989 million



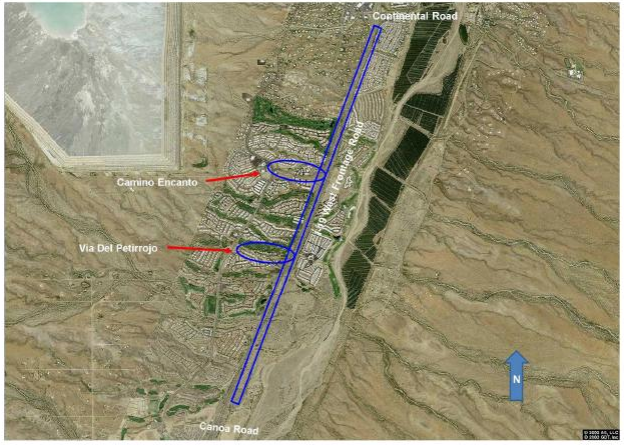


Project Type	Maintenance and Rehabilitation Projects
Project No. 4	I-19 West Frontage Road, Peck Canyon to Rio Rico Road
Project Description	Pavement resurfacing for 3.11 mile segment of roadway.
Project Justification	Need for improved pavement condition in this area was verified through visual inspection. Bicycle stakeholders indicated a need for resurfacing in this area
Estimate of Probable Cost	\$1.332 million





Project Type	Shoulder Widening Projects
Project No. 5	I-19 West Frontage Road, Continental Road to Canoa Road
Project Description	Design and construct wider shoulders and intersection lighting at two intersection locations (West Frontage Road / Camino Encanto and West Frontage Road / Via Del Petirrojo).
Project Justification	This segment of roadway serves older drivers and is one of the higher volume segments on the corridor. This will improve safety by providing increased pavement width and recovery area.
Estimate of Probable Cost	\$4.377 million





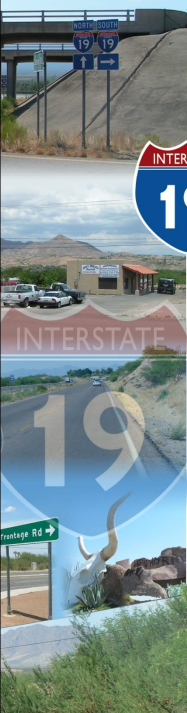
Project Type	Intersection Improvement Projects – I-19 West Frontage Road
Project No. 6	I-19 West Frontage Road / Calle Tres Intersection
Project Description	Design and construct northbound left turn lane and intersection lighting.
Project Justification	Provision of a northbound left turn lane will provide a refuge for drivers to this main entrance to the Canoa Ranch development. Intersection lighting will improve safety for older drivers, who predominately use this intersection.
Estimate of Probable Cost	\$0.567 million





Project Type	Intersection Improvement Projects – I-19 West Frontage Road
Project No. 7	I-19 West Frontage Road/ Arivaca Road Intersection and I-19 West Frontage Road / County Line Road Intersection.
Project Description	Design and construct a northbound left turn lanes at the I-19 West Frontage Road/ Arivaca Road intersection and construct a southbound left turn lane at the I-19 West Frontage Road/ County Line Road intersection.
Project Justification	Provision of a northbound left turn lane at these two closely spaced intersections will improve safety.
Estimate of Probable Cost	\$0.152 million





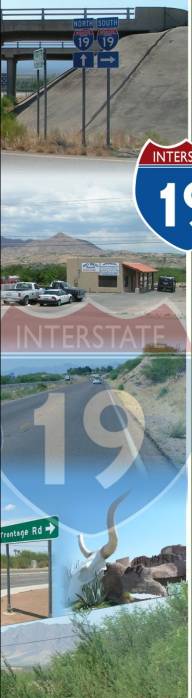
Project Type	Intersection Improvement Projects – I-19 West Frontage Road
Project No. 8	I-19 West Frontage Road / San Cayetano Elementary School Intersection
Project Description	Design and construct a continuous left turn lane between the access to the San Cayetano Elementary School and the access to the school district bus barn.
Project Justification	Provision of a continuous left turn lane will improve safety and reduce potential turning conflicts.
Estimate of Probable Cost	\$0.294 million



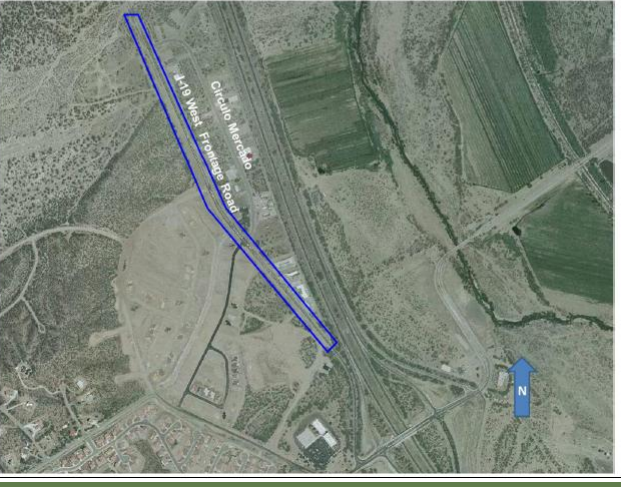


Project Type	Intersection Improvement Projects – I-19 West Frontage Road
Project No. 9	I-19 West Frontage Road / Camino Lito Galindo Intersection
Project Description	Design and construct a northbound left turn lane and a southbound right turn lane.
Project Justification	This intersection serves the Mountain View Elementary School and Rio Rico High School.
Estimate of Probable Cost	\$0.240 million





Project Type	Intersection Improvement Projects – I-19 West Frontage Road
Project No. 10	I-19 West Frontage Road / Circulo Mercado to 0.25 miles south of Circulo Mercado Intersection.
Project Description	Design and construct a continuous left turn lane.
Project Justification	This improvement will combine and extend the existing left turn lanes into a continuous left turn lane to better serve drivers using retail areas.
Estimate of Probable Cost	:\$0.356 million





Project Type	Intersection Improvement Projects – I-19 East Frontage Road
Project No. 11	I-19 East Frontage Road / Tumacacori Road
Project Description	Design and construct a northbound left turn lane.
Project Justification	Provision of a northbound left turn lane will improve safety and access for drivers in this area.
Estimate of Probable Cost	\$1.598 million





Project Type	Intersection Improvement Projects – I-19 East Frontage Road
Project No. 12	I-19 East Frontage Road / Barrio De Tubac Road
Project Description	Design and construct a northbound and southbound left turn lanes.
Project Justification	Provision of a northbound and southbound left turn lanes will improve safety and access for drivers in this area.
Estimate of Probable Cost	\$ 0.213 million





Project Type	Intersection Improvement Projects – I-19 East Frontage Road
Project No. 13	I-19 East Frontage Road / Avenida Goya to Bridge Road
Project Description	Design and construct a continuous left turn lane.
Project Justification	Provision of a continuous left turn lane will improve safety and access for drivers in this area.
Estimate of Probable Cost	\$1.808 million





Project Type	Intersection Improvement Projects – I-19 East Frontage Road
Project No. 14	I-19 East Frontage Road / Avenida de Otero
Project Description	Design and construct a northbound right turn lanes.
Project Justification	Provision of a northbound right turn lanes will improve safety and access for drivers in this area.
Estimate of Probable Cost	\$ 0.138 million





Project Type	Studies
Project No. 15	Study of I-19 Corridor Connections from Country Club Road to Mariposa Road
Project Description	Evaluation of Frontage Road feasibility from Country Club Road to Mariposa Road.
Project Justification	The on-going I-19 Connector Study (currently being conducted by ADOT Transportation Planning Division) will develop and review alternatives to improve connections between the Mariposa Port of Entry and I-19. This study would be the logical follow-on to this study to further investigate the feasibility frontage road connections in this area.
Estimate of Probable Cost	\$200,000



Project Prioritization Criteria

- Short term projects:
 - 1 to 5 year horizon
 - Stakeholder priorities
 - Safety
 - Maintenance
- Mid term projects
 - 5 to 10 year horizon
 - New frontage road construction

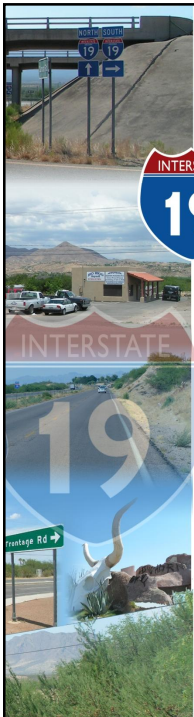


SHORT RANGE PROJECTS (1 TO 5 YEARS)

Project No.	County	Name	Project Type	Estimate of Probable Cost
1	Santa Cruz	West Frontage Road, Yavapai Drive (Rio Rico Dr.) to Calle Calabasas	Design and construct new frontage road	\$ 4,361,000
4	Santa Cruz	I-19 West Frontage Road, Peck Canyon to Rio Rico Road	Pavement resurfacing	\$ 1,332,000
5	Pima	West Frontage Road, Continental Road to Canoa Road	Design and construct shoulder widening and intersection lighting at intersections of west frontage road at Via Del Petirrojo and Camino Encanto	\$4,337,000
6	Pima	West Frontage Road / Calle Tres	Design and construct northbound left-turn lane and intersection lighting	\$587,000
7	Pima	West Frontage Road / Arivaca Road / County Line Road	Design and construct northbound and southbound left-turn lanes	\$152,000
8	Santa Cruz	West Frontage Road / San Cayetano Elementary School	Design and construct continuous left-turn lane and right-turn Lanes	\$294,000
9	Santa Cruz	West Frontage Road / Camino Lito Galindo	Design and construct northbound left-turn lane and southbound right-turn lane	\$240,000
10	Santa Cruz	West Frontage Road, Circulo Mercado (north) to 0.25 miles south of Circulo Mercado (south)	Design and construct continuous left-turn lane	\$356,000
11	Santa Cruz	East Frontage Road, Tumacacori Road	Design and construct northbound left-turn lane	\$1,598,000
12	Santa Cruz	East Frontage Road, Barrio De Tubac	Design and construct northbound and south bound left-turn lane	\$213,000
13	Santa Cruz	East Frontage Road, Avenida Goya to Bridge Road	Design and construct continuous left-turn lane	\$1,808,000
14	Santa Cruz	East Frontage Road, Avenue de Otero	Design and construct northbound right-turn lane	\$138,000
15	Santa Cruz	I-19 Corridor from Country Club Road to Mariposa Road	Evaluation for provision of frontage roads	\$200,000
SUBTOTAL				\$15,616,000



MID RANGE PROJECTS (5 TO 10 YEARS)				
Project No.	County	Name	Project Type	Estimate of Probable Cost
2	Santa Cruz	West Frontage Road, Chavez Siding Road and Agua Linda Road	Design and construct new frontage road	\$3,126,000
3	Santa Cruz	East Frontage Road, Chavez Siding Road and Agua Linda Road	Design and construct new frontage road	\$3,989,000
SUBTOTAL				\$7,115,000



Public Involvement

- Public Open House Meetings
 - Tuesday, May 27, Tubac
 - Wednesday, May 28, Green Valley
 - Thursday, May 29, Nogales
- Purpose:
 - Obtain input on frontage road proposed program of projects



What's Next?

STUDY SCHEDULE

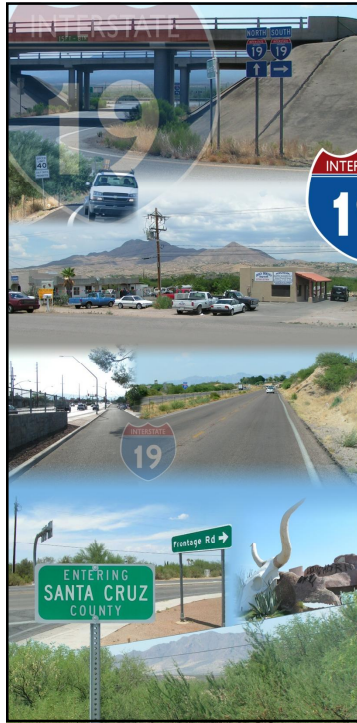
WORK TASKS		2007						2008						
		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
Task 1	Work Plan Refinement			1										
Task 2	Existing and Future Conditions				2									
Task 3	Deficiencies in the Study Area							3						
Task 4	Round One of Public Involvement								4					
Task 5	Program of Projects											5		
Task 6	Round Two of Public Involvement												6	
Task 7	Final Documentation													7
Technical Advisory Committee Meetings			✓			✓			✓			✓		
Public Involvement Open Houses									♦			♦		
Distribution of Task Document														

1 Work Plan and Public Involvement Plan
 2 Working Paper No. 1 – Existing and Future Conditions
 3 Working Paper No. 2 – Deficiencies in the Study Area
 4 Public Involvement Summary Report No. 1
 5 Working Paper No. 3 – Program of Projects
 6 Public Involvement Summary Report No. 2
 7 Draft Final Report, Final Reports, and Executive Summary

- Final Working Paper No. 3 - May
- Public Open Houses
- Public Involvement Summary Report No. 2
- Final Report – June/July
- Final TAC Meeting – July



Comments and Questions?



ADOT I-19

FRONTAGE ROADS STUDY

Technical Advisory Committee Meeting No. 3



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and Associates, Inc.

